



Hydraulic Valve Lifter Concentrate

Safety Data Sheet

according to Regulation (EC) No. 453/2010

MSDS Version: E05.00

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Blend Version: 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Hydraulic Valve Lifter Concentrate

Product code : W76844

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Oil additive

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.be

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14/58.45.45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
2-(2-butoxyethoxy)ethanol	(CAS No)112-34-5 (EC no)203-961-6 (EC index no)603-096-00-8 (REACH-no)01-2119475104-44	1 - 2,5	Xi; R36
4-methylpentan-2-ol	(CAS No)108-11-2 (EC no)203-551-7 (EC index no)603-008-00-8 (REACH-no)01-2119473979-13	1 - 2,5	R10 Xi; R36/37/38
Cyclohexanone	(CAS No)108-94-1 (EC no)203-631-1 (EC index no)606-010-00-7 (REACH-no)01-2119453616-35	1 - 2,5	R10 Xn; R20

Name	Product identifier	Specific concentration limits
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Hydraulic Valve Lifter Concentrate

Safety Data Sheet

according to Regulation (EC) No. 453/2010

4-methylpentan-2-ol

(CAS No)108-11-2
(EC no)203-551-7
(EC index no)603-008-00-8
(REACH-no)01-2119473979-13

(C >= 25) Xi;R37

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-butoxyethoxy)ethanol	(CAS No)112-34-5 (EC no)203-961-6 (EC index no)603-096-00-8 (REACH-no)01-2119475104-44	1 - 2,5	Eye Irrit. 2, H319
4-methylpentan-2-ol	(CAS No)108-11-2 (EC no)203-551-7 (EC index no)603-008-00-8 (REACH-no)01-2119473979-13	1 - 2,5	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335
Cyclohexanone	(CAS No)108-94-1 (EC no)203-631-1 (EC index no)606-010-00-7 (REACH-no)01-2119453616-35	1 - 2,5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332

Name	Product identifier	Specific concentration limits
4-methylpentan-2-ol	(CAS No)108-11-2 (EC no)203-551-7 (EC index no)603-008-00-8 (REACH-no)01-2119473979-13	(C >= 25) STOT SE 3, H335

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Vomiting: prevent asphyxia/aspiration pneumonia. Victim in shock: on his back with legs slightly raised. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation : Remove victim to fresh air.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Take victim to a doctor if irritation persists.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Rinse mouth thoroughly with water. Do not induce vomiting. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. AFFF foam. BC-powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible.

Explosion hazard : No direct explosion hazard.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No naked lights. No smoking.

Hydraulic Valve Lifter Concentrate

Safety Data Sheet

according to Regulation (EC) No. 453/2010

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.
Emergency procedures : Mark the danger area. Seal off low-lying areas. Large spills/in enclosed spaces: compressed air apparatus. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent spreading in sewers. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment : Contain leaking substance, pump over in suitable containers.
Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean with detergents. Avoid solvent cleaners.
Other information : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : meet the legal requirements. No particular risk when handled in accordance with good occupational hygiene practice.
Hygiene measures : Observe normal hygiene standards. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Meet the legal requirements.
Storage area : Meet the legal requirements.
Special rules on packaging : correctly labelled.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4-methylpentan-2-ol (108-11-2)

Belgium	Limit value (mg/m ³)	106 mg/m ³
Belgium	Limit value (ppm)	25 ppm
Belgium	Short time value (mg/m ³)	169 mg/m ³
Belgium	Short time value (ppm)	40 ppm
Belgium	Remark*	D
France	VME (mg/m ³)	100 mg/m ³
France	VME (ppm)	25 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	85 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	25 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	40 ppm
United Kingdom	WEL TWA (mg/m ³)	106 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	170 mg/m ³
United Kingdom	WEL STEL (ppm)	40 ppm

2-(2-butoxyethoxy)ethanol (112-34-5)

EU	IOELV TWA (mg/m ³)	67,5 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	101,2 mg/m ³
EU	IOELV STEL (ppm)	15 ppm
Belgium	Limit value (mg/m ³)	67,5 mg/m ³
Belgium	Limit value (ppm)	10 ppm

Hydraulic Valve Lifter Concentrate

Safety Data Sheet

according to Regulation (EC) No. 453/2010

2-(2-butoxyethoxy)ethanol (112-34-5)		
Belgium	Short time value (mg/m ³)	101,2 mg/m ³
Belgium	Short time value (ppm)	15 ppm
Cyclohexanone (108-94-1)		
EU	IOELV TWA (mg/m ³)	40,8 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	81,6 mg/m ³
EU	IOELV STEL (ppm)	20 ppm
Belgium	Limit value (mg/m ³)	40,8 mg/m ³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m ³)	81,6 mg/m ³
Belgium	Short time value (ppm)	20 ppm
Belgium	Remark*	D

8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses.



Hand protection : Neoprene. nitrile. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Colour	: brown.
Odour	: Oily.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,492
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 63 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 904 kg/m ³
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: 18,91 mm ² /s
Viscosity, dynamic @40°C	: No data available
Viscosity	: 3,55 mm ² /s @100°C
Viscosity Index	:
	37
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

Hydraulic Valve Lifter Concentrate

Safety Data Sheet

according to Regulation (EC) No. 453/2010

9.2. Other information

Other properties

: Dimethylsulfoxide (DMSO) <3%.

Additional information

: The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from: strong oxidants and strong acids.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Cyclohexanone (108-94-1)

ATE CLP (dust,mist) 1,500 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

4-methylpentan-2-ol (108-11-2)

Persistence and degradability Readily biodegradable in water. Biodegradable in the soil.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

Hydraulic Valve Lifter Concentrate

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Remove to an authorized waste treatment plant.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no substance on the REACH candidate list

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Hydraulic Valve Lifter Concentrate

Safety Data Sheet

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Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation)

Eye Irrit. 2

Flam. Liq. 3

STOT SE 3

H226

H319

H332

H335

R10

R20

R36

R36/37/38

Xi

Xn

Acute toxicity (inhal.), Category 4

Serious eye damage/eye irritation, Category 2

Flammable liquids, Category 3

Specific target organ toxicity — Single exposure, Category 3,
Respiratory tract irritation

Flammable liquid and vapour

Causes serious eye irritation

Harmful if inhaled

May cause respiratory irritation

Flammable

Harmful by inhalation

Irritating to eyes

Irritating to eyes, respiratory system and skin

Irritant

Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product